

CLAIMS

1. An electrical contact component comprising: a base to be mounted on a surface of a mounting board with a solder, the base having a first principal surface opposing the surface of the mounting board, a second principal surface substantially parallel to the first principal surface, and sides substantially perpendicular to the first and second principal surfaces and connecting the first principal surface to the second principal surface; and a fitting portion continuously provided on the second principal surface, the fitting portion having a fitting periphery and being tubular in shape,

wherein the fitting periphery of the fitting portion is electrically connected to the second principal surface and the sides of the base by metal films formed over their respective surfaces, and

wherein the metal films each include a first metal layer containing Ni as a principal constituent and Co, and a second metal layer containing Au as a principal constituent and overlying the first metal layer.

2. The electrical contact component according to Claim 1, wherein the base serves as an external terminal and is integrated with the fitting portion, and the second principal surface is partitioned from the sides by an edge

line.

3. The electrical contact component according to Claim 1 or 2, wherein the Co content in the first metal layer is in the range of 5 to 80 percent by weight.

4. The electrical contact component according to Claim 1 or 2, wherein the Co content in the first metal layer is in the range of 10 to 80 percent by weight.

5. The electrical contact component according to any one of Claims 1 to 4, wherein at least one of the first metal layer and the second metal layer is formed by plating.

6. The electrical contact component according to any one of Claims 1 to 4, wherein the first metal layer or both the first metal layer and the second metal layer are formed by cladding.

7. The electrical contact component according to any one of Claims 1 to 6, wherein the fitting portion has a cylindrical form and protrudes from the second principal surface.

8. A coaxial connector comprising the electrical contact component as set forth in any one of Claims 1 to 7.

9. An electrical circuit device comprising: the electrical contact component as set forth in any one of Claims 1 to 7 or the coaxial connector as set forth in Claim 8; and a wiring board on which the base is surface-mounted with a Sn-based solder.

10. The electrical circuit device according to Claim 9,
wherein the Sn-based solder contains Ag and substantially no
Pb.